ABSTRACT OF THE DISCLOSURE

An expert system for generating user interfaces is provided. The expert system includes one or more components for realizing one or more intentions of a user interface designer. Each intention, when received by the expert system, identifies and activates a

5 corresponding component for realizing the received intention. Each component programmatically contains a set of rules extracted from guidelines, conventions, and principles of user interface design. A set of parameters is also supplied with each received intention to aid the corresponding component to choose and execute a rule from the set of rules. Each rule produces a user interface from a template different from other templates

10 used by other rules.